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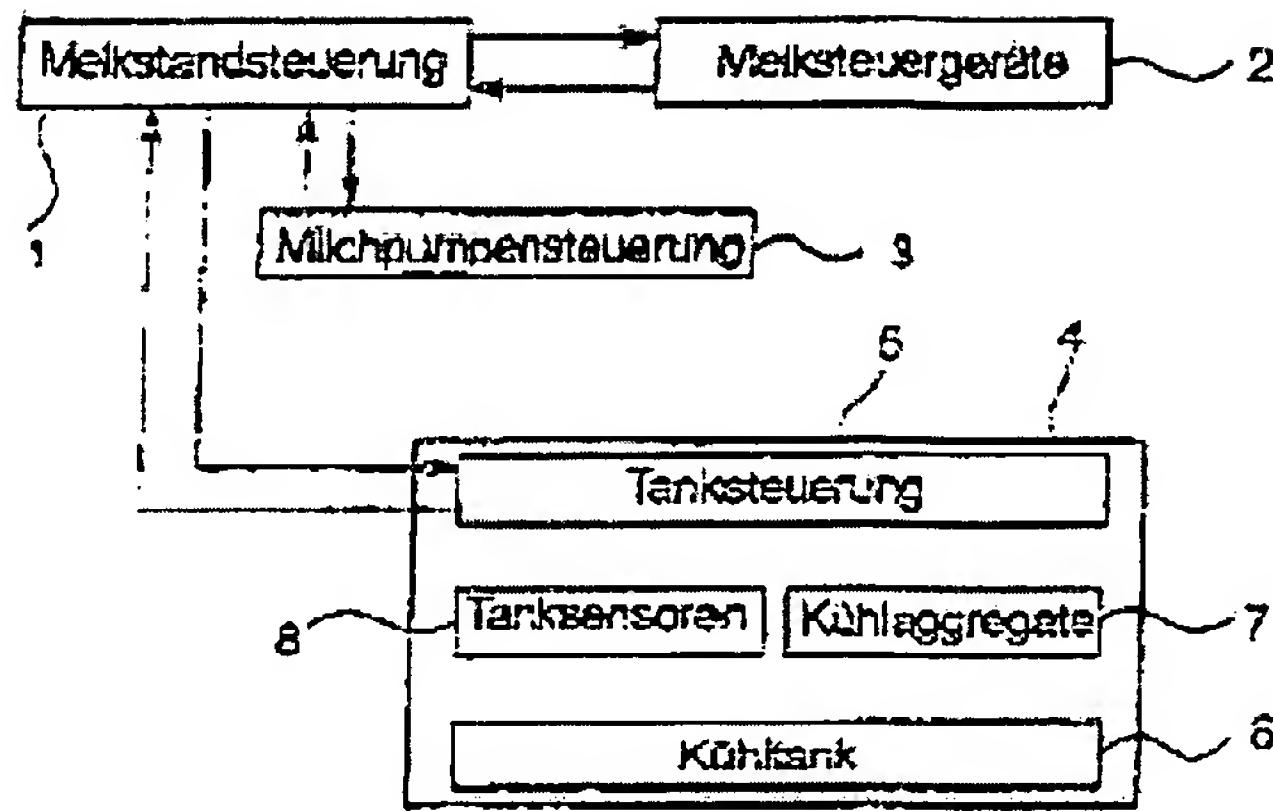
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(54) Title: **METHOD FOR PROVIDING DATA FOR A CONTROL SYSTEM FOR A MILK COOLING ARRANGEMENT OF A MILKING SYSTEM, AND METHOD FOR COOLING MILK IN A MILK COOLING ARRANGEMENT AND CONTROL SYSTEM FOR A MILK COOLING ARRANGEMENT**



- 1 Milking parlor control
- 2 Milking control devices
- 3 Milk pump control
- 5 Tank control
- 6 Cooling tank
- 7 Cooling units
- 8 Tank sensors

(57) **Abstract:** In order to improve the functionality of a cooling arrangement (4), the invention provides a method for providing data for a control system for a milk cooling arrangement (4), a method for cooling milk in a milk cooling arrangement, and a control system. Data, which are relevant to the cooling tank and which are at least specific to the milk at at least two milking stations, are determined for the control system of a milk cooling arrangement of a milking system and are provided to said control system. At least one characteristic quantity is determined from this data, and the milk cooling arrangement is activated when at least one characteristic quantity lies outside a tolerance zone, particularly when it exceeds a predetermined threshold value. Shorter cooling times and an improved use of resources are achieved due to the interaction of the milking parlor control with the control system of a milk cooling arrangement. In addition, the invention enables an operator to set parameters and log the operation of the milk cooling arrangement in a convenient manner.